

Wireless Bridge Device for Secure, Dedicated Connection to a Network

ABSTRACT

5 A data processing configuration in which a data processing system communicates with a network medium via a wireless transmission link provided by a wireless bridge device pair. The pair includes first and second wireless bridge devices having connectors suitable for connecting to the network port of the data processing system and a wall jack or router jack connected to the LAN. The bridge devices share a common encryption key that is unique to the device pair. Each
10 device implements the wireless link transparently to the data processing system. Each wireless bridge device is configured to receive an Ethernet packet and encrypt the packet with a strong and unique encryption algorithm or key. The bridge device might add additional protocol processing to ready the packet for wireless transmission according to the wireless transmission protocol employed by the device pair.